



SEQUENCE LISTING

<110> Bertin, John
Manji, Gulam A.

<120> NOVEL MOLECULES OF THE PYRIN DOMAIN
PROTEIN FAMILY AND USES THEREOF

<130> 07334-341001

<140> US 10/027,629

<141> 2001-12-20

<150> US 09/964,955

<151> 2001-09-26

<150> US 09/653,901

<151> 2000-09-01

<150> US 09/506,067

<151> 2000-02-17

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Ser Pro Ala His Glu Leu Gln Lys Ile Pro His Lys Glu Val Asp Lys
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Ser	Ala	Ser	Leu	Val	Arg	Ile	Leu	Cys	Glu	Gln	Ile	Ala	Ser	Asp	Thr	
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Cys	His	Leu	Gln	Arg	Val	Val	Phe	Lys	Asn	Ile	Ser	Pro	Ala	Asp	Ala	
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cat	cgg	aac	ctc	tgc	cta	gct	ctt	cga	ggc	cac	aag	act	gta	acg	tat	2270
His	Arg	Asn	Leu	Cys	Leu	Ala	Leu	Arg	Gly	His	Lys	Thr	Val	Thr	Tyr	
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Leu	Thr	Leu	Gln	Gly	Asn	Asp	Gln	Asp	Asp	Met	Phe	Pro	Ala	Leu	Cys	
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Cys Phe Leu Gln Arg Leu Ser Leu Glu Asn Cys His Leu Thr Glu Ala			
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Asn Cys Lys Asp Leu Ala Ala Val Leu Val Val Ser Arg Glu Leu Thr			
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His Leu Cys Leu Ala Lys Asn Pro Ile Gly Asn Thr Gly Val Lys Phe			
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Leu Cys Glu Gly Leu Arg Tyr Pro Glu Cys Lys Leu Gln Thr Leu Val			
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cca ctg tgc aac ttg aga tgt ctg tgg ttg tgg gga tgt tcc atc cct			2894
Pro Leu Cys Asn Leu Arg Cys Leu Trp Leu Trp Gly Cys Ser Ile Pro			
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Pro Phe Ser Cys Glu Asp Leu Cys Ser Ala Leu Ser Asn Gln Ser Leu			
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gtc act ctg gac ctg ggt cag aat ccc ttg ggg tct agt gga gtg aag			2990
Val Thr Leu Asp Leu Gly Gln Asn Pro Leu Gly Ser Ser Gly Val Lys			
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 Ile Glu Asp Ile Cys Gly Asp Trp Glu Lys Lys Lys Pro Val Pro Val
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Asn Asp Gln Asp Met Phe Pro Ala	Leu Cys Glu Val Leu Arg His					
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Pro Glu Cys Asn Leu Arg Tyr Leu Gly	Leu Val Ser Cys Ser Ala Thr					
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Met Ala Ser Thr Arg Cys Lys Leu Ala Arg Tyr
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Leu	Glu	Asp	Leu	Glu	Asp	Val	Asp	Leu	Lys	Lys	Phe	Lys	Met	His	Leu	
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gag	gac	tat	cct	ccc	cag	aag	ggc	tgc	atc	ccc	ctc	ccg	agg	ggg	cag	267
Glu	Asp	Tyr	Pro	Pro	Gln	Lys	Gly	Cys	Ile	Pro	Leu	Pro	Arg	Gly	Gln	
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aca	gag	aag	gca	gac	cat	gtg	gat	cta	gcc	acg	cta	atg	atc	gac	ttc	315
Thr	Glu	Lys	Ala	Asp	His	Val	Asp	Leu	Ala	Thr	Leu	Met	Ile	Asp	Phe	
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aat	ggg	gag	gag	aag	gcg	tgg	gcc	atg	gcc	gtg	tgg	atc	ttc	gct	gcg	363
Asn	Gly	Glu	Glu	Lys	Ala	Trp	Ala	Met	Ala	Val	Trp	Ile	Phe	Ala	Ala	
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Ile	Asn	Arg	Arg	Asp	Leu	Tyr	Glu	Lys	Ala	Lys	Arg	Asp	Glu	Pro	Lys	
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Glu	Asp	Ser	Ile	Glu	Glu	Glu	Trp	Met	Gly	Leu	Leu	Glu	Tyr	Leu	Ser	
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Arg	Ile	Ser	Ile	Cys	Lys	Met	Lys	Lys	Asp	Tyr	Arg	Lys	Lys	Tyr	Arg	
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Lys	Tyr	Val	Arg	Ser	Arg	Phe	Gln	Cys	Ile	Glu	Asp	Arg	Asn	Ala	Arg	
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Leu	Gly	Glu	Ser	Val	Ser	Leu	Asn	Lys	Arg	Tyr	Thr	Arg	Leu	Arg	Leu	
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Ile	Lys	Glu	His	Arg	Ser	Gln	Gln	Glu	Arg	Glu	Gln	Glu	Leu	Leu	Ala	
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Glu	Leu	Leu	Phe	Asp	Pro	Asp	Asp	Glu	His	Ser	Glu	Pro	Val	His	Thr	
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Lys Met Met Leu Asp Trp Ala Ser Gly Thr Leu Tyr Gln Asp Arg Phe	240	245	250	
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Asp Tyr Leu Phe Tyr Ile His Cys Arg Glu Val Ser Leu Val Thr Gln	255	260	265	
agg agc ctg ggg gac ctg atc atg agc tgc tgc ccc gac cca aac cca				987
Arg Ser Leu Gly Asp Leu Ile Met Ser Cys Cys Pro Asp Pro Asn Pro	270	275	280	
ccc atc cac aag atc gtg aga aaa ccc tcc aga atc ctc ttc ctc atg				1035
Pro Ile His Lys Ile Val Arg Lys Pro Ser Arg Ile Leu Phe Leu Met	285	290	295	
gac ggc ttc gat gag ctg caa ggt gcc ttt gag gag cac ata gga cgg				1083
Asp Gly Phe Asp Glu Gln Gly Ala Phe Asp Glu His Ile Gly Pro	300	305	310	315
ctc tgc act gac tgg cag aag gcc gag cgg gga gac att ctc ctg agc				1131
Leu Cys Thr Asp Trp Gln Lys Ala Glu Arg Gly Asp Ile Leu Leu Ser	320	325	330	
agc ctc atc aga aag aag ctg ctt ccc gag gcc tct ctg ctc atc acc				1179
Ser Leu Ile Arg Lys Lys Leu Leu Pro Glu Ala Ser Leu Leu Ile Thr	335	340	345	
acg aga cct gtg gcc ctg gag aaa ctg cag cac ttg ctg gac cat cct				1227
Thr Arg Pro Val Ala Leu Glu Lys Leu Gln His Leu Leu Asp His Pro	350	355	360	
cgg cat gtg gag atc ctg ggt ttc tcc gag gcc aaa agg aaa gag tac				1275
Arg His Val Glu Ile Leu Gly Phe Ser Glu Ala Lys Arg Lys Glu Tyr	365	370	375	
ttc ttc aag tac ttc tct gat gag gcc caa gcc agg gca gcc ttc agt				1323
Phe Phe Lys Tyr Phe Ser Asp Glu Ala Gln Ala Arg Ala Ala Phe Ser	380	385	390	395
ctg att cag gag aac gag gtc ctc ttc acc atg tgc ttc atc ccc ctg				1371
Leu Ile Gln Glu Asn Glu Val Leu Phe Thr Met Cys Phe Ile Pro Leu	400	405	410	
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Val Cys Trp Ile Val Cys Thr Gly Leu Lys Gln Gln Met Glu Ser Gly	415	420	425	
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Lys Ser Leu Ala Gln Thr Ser Lys Thr Thr Thr Ala Val Tyr Val Phe	430	435	440	
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Phe Leu Ser Ser Leu Leu Gln Pro Arg Gly Gly Ser Gln Glu His Gly	445	450	455	

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Asn Met Pro Lys Glu Glu Glu Glu Glu Glu Lys Glu Gly Arg His Leu	
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Asp Met Val Gln Cys Val Leu Pro Ser Ser Ser His Ala Ala Cys Ser	
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cat gga ttg gtg aac agc cac ctc act tcc agt ttt tgc cgg ggc ctc	2331
His Gly Leu Val Asn Ser His Leu Thr Ser Ser Phe Cys Arg Gly Leu	
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Phe Ser Val Leu Ser Thr Ser Gln Ser Leu Thr Glu Leu Asp Leu Ser	
735 740 745	
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Asp Asn Ser Leu Gly Asp Pro Gly Met Arg Val Leu Cys Glu Thr Leu	
750 755 760	
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Gln His Pro Gly Cys Asn Ile Arg Arg Leu Trp Leu Gly Arg Cys Gly	
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Gln Lys Leu Val Glu Leu Asp Leu Ser Asp Asn Ala Leu Gly Asp Phe	
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 Asp Lys Gly Ile Lys Leu Cys Glu Gly Leu Leu His Pro Asp Cys
 925 930 935
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 Lys Leu Gln Val Leu Glu Leu Asp Asn Cys Asn Leu Thr Ser His Cys
 940 945 950 955
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 35 40 45
 His Val Asp Leu Ala Thr Leu Met Ile Asp Phe Asn Gly Glu Glu Lys
 50 55 60

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Leu	Tyr	Glu	Lys	Ala	Lys	Arg	Asp	Glu	Pro	Lys	Trp	Gly	Ser	Asp	Asn		85	90	95
Ala	Arg	Val	Ser	Asn	Pro	Thr	Val	Ile	Cys	Gln	Glu	Asp	Ser	Ile	Glu	100	105	110	
Glu	Glu	Trp	Met	Gly	Leu	Leu	Glu	Tyr	Leu	Ser	Arg	Ile	Ser	Ile	Cys	115	120	125	
Lys	Met	Lys	Lys	Asp	Tyr	Arg	Lys	Lys	Tyr	Arg	Lys	Tyr	Val	Arg	Ser	130	135	140	
Arg	Phe	Gln	Cys	Ile	Glu	Asp	Arg	Asn	Ala	Arg	Leu	Gly	Glu	Ser	Val	145	150	155	160
Ser	Leu	Asn	Lys	Arg	Tyr	Thr	Arg	Leu	Arg	Leu	Ile	Lys	Glu	His	Arg	165	170	175	
Ser	Gln	Gln	Glu	Arg	Glu	Gln	Glu	Leu	Leu	Ala	Ile	Gly	Lys	Thr	Lys	180	185	190	
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Pro	Asp	Asp	Glu	His	Ser	Glu	Pro	Val	His	Thr	Val	Val	Phe	Gln	Gly	210	215	220	
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Ile	His	Cys	Arg	Glu	Val	Ser	Leu	Val	Thr	Gln	Arg	Ser	Leu	Gly	Asp	260	265	270	
Leu	Ile	Met	Ser	Cys	Cys	Pro	Asp	Pro	Asn	Pro	Pro	Ile	His	Lys	Ile	275	280	285	
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Gln	Lys	Ala	Glu	Arg	Gly	Asp	Ile	Leu	Leu	Ser	Ser	Leu	Ile	Arg	Lys	325	330	335	
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Thr	Ser	Lys	Thr	Thr	Thr	Ala	Val	Tyr	Val	Phe	Phe	Leu	Ser	Ser	Leu	435	440	445	
Leu	Gln	Pro	Arg	Gly	Gly	Ser	Gln	Glu	His	Gly	Leu	Cys	Ala	His	Leu	450	455	460	
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Pro	Gly	Ser	Arg	Leu	Lys	Leu	Pro	Ser	Arg	Asp	Val	Thr	Val	Leu	Leu
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Glu	Asn	Tyr	Gly	Lys	Phe	Glu	Lys	Gly	Tyr	Leu	Ile	Phe	Val	Val	Arg
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Lys	Leu	Ser	Cys	Lys	Ile	Ser	Gln	Gln	Ile	Arg	Leu	Glu	Leu	Leu	Lys
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Val	Gln	Arg	Ala	Met	Asp	Tyr	Phe	Pro	Lys	Ile	Glu	Ile	Asn	Leu	Ser
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Thr	Arg	Met	Asp	His	Met	Val	Ser	Ser	Phe	Cys	Ile	Glu	Asn	Cys	His
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Leu	Asp	Leu	Ser	Asp	Asn	Ala	Leu	Gly	Asp	Phe	Gly	Ile	Arg	Leu	Leu
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Cys	Val	Gly	Leu	Lys	His	Leu	Leu	Cys	Asn	Leu	Lys	Lys	Leu	Trp	Leu
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Val	Ser	Cys	Cys	Leu	Thr	Ser	Ala	Cys	Cys	Gln	Asp	Leu	Ala	Ser	Val
		835					840					845			
Leu	Ser	Thr	Ser	His	Ser	Leu	Thr	Arg	Leu	Tyr	Val	Gly	Glu	Asn	Ala
		850				855					860				
Leu	Gly	Asp	Ser	Gly	Val	Ala	Ile	Leu	Cys	Glu	Lys	Ala	Lys	Asn	Pro
865					870					875					880
Gln	Cys	Asn	Leu	Gln	Lys	Leu	Gly	Leu	Val	Asn	Ser	Gly	Leu	Thr	Ser
				885					890					895	
Val	Cys	Cys	Ser	Ala	Leu	Ser	Ser	Val	Leu	Ser	Thr	Asn	Gln	Asn	Leu
			900					905					910		
Thr	His	Leu	Tyr	Leu	Arg	Gly	Asn	Thr	Leu	Gly	Asp	Lys	Gly	Ile	Lys
		915					920					925			
Leu	Leu	Cys	Glu	Gly	Leu	Leu	His	Pro	Asp	Cys	Lys	Leu	Gln	Val	Leu
		930				935					940				
Glu	Leu	Asp	Asn	Cys	Asn	Leu	Thr	Ser	His	Cys	Cys	Trp	Asp	Leu	Ser
945					950					955					960
Thr	Leu	Leu	Thr	Ser	Ser	Gln	Ser	Leu	Arg	Lys	Leu	Ser	Leu	Gly	Asn
				965					970					975	

Asn Asp Leu Gly Asp Leu Gly Val Met Met Phe Cys Glu Val Leu Lys
 980 985 990
 Gln Gln Ser Cys Leu Leu Gln Asn Leu Gly Leu Ser Glu Met Tyr Phe
 995 1000 1005
 Asn Tyr Glu Thr Lys Ser Ala Leu Glu Thr Leu Gln Glu Glu Lys Pro
 1010 1015 1020
 Glu Leu Thr Val Val Phe Glu Pro Ser Trp
 1025 1030

<210> 6
 <211> 3102
 <212> DNA
 <213> Homo sapiens

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 ggggaggaga aggcgtgggc catggccgtg tggatcttcg ctgcgatcaa caggagagac 240
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 aatcccactg tgatatgcca ggaagacagc attgaagagg agtggatggg tttactggag 360
 taccttttoga gaattcttat ttgtaaaatg aagaaagatt accgtaagaa gtacagaaaag 420
 tacgtgagaa gcagattcca gtgcattgaa gacaggaatg cccgtctggg tgagagtgtg 480
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 agggagcagg agctttctggc catcggaag accaagacgt gtgagagccc cgtgagtcct 600
 attaagatgg agttgctgtt tgaccccgat gatgagcatt ctgagcctgt gcacaccgtg 660
 gtgttccagg gggcgccagg gattgggaaa acaatcctgg ccaggaagat gatgttggac 720
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 aagcacctgt tgtgcaatct gaagaagctc tgggttggtc gctgctgctt cacatcagca 2520

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<210> 7
 <211> 77
 <212> PRT
 <213> Homo sapiens

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<400> 7
Asp His Leu Leu Ser Thr Leu Glu Glu Leu Val Pro Tyr Asp Phe Glu
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Lys Phe Lys Phe Lys Leu Gln Asn Thr Ser Val Gln Lys Glu His Ser
 20           25           30
Arg Ile Pro Arg Ser Gln Ile Gln Arg Ala Arg Pro Val Lys Met Ala
 35           40           45
Thr Leu Leu Val Thr Tyr Tyr Gly Glu Glu Tyr Ala Val Gln Leu Thr
 50           55           60
Leu Gln Val Leu Arg Ala Ile Asn Gln Arg Leu Leu Ala
65           70           75

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<210> 8
 <211> 77
 <212> PRT
 <213> Homo sapiens

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<400> 8
Asp Ala Ile Leu Asp Ala Leu Glu Asn Leu Thr Ala Glu Glu Leu Lys
 1           5           10           15
Lys Phe Lys Leu Lys Leu Leu Ser Val Pro Leu Arg Glu Gly Tyr Gly
 20           25           30
Arg Ile Pro Arg Gly Ala Leu Leu Ser Met Asp Ala Leu Asp Leu Thr
 35           40           45
Asp Lys Leu Val Ser Phe Tyr Leu Glu Thr Tyr Gly Ala Glu Leu Thr
 50           55           60
Ala Asn Val Leu Arg Asp Met Gly Leu Gln Glu Met Ala
65           70           75

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<210> 9
 <211> 77
 <212> PRT
 <213> Homo sapiens

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<400> 9
Gly Arg Leu Ala Cys Tyr Leu Glu Phe Leu Lys Lys Glu Glu Leu Lys
 1           5           10           15
Glu Phe Gln Leu Leu Leu Ala Asn Lys Ala His Ser Arg Ser Ser Ser
 20           25           30
Gly Glu Thr Pro Ala Gln Pro Glu Lys Thr Ser Gly Met Glu Val Ala
 35           40           45

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Ser Tyr Leu Val Ala Gln Tyr Gly Glu Gln Arg Ala Trp Asp Leu Ala
 50 55 60
 Leu His Thr Trp Glu Gln Met Gly Leu Arg Ser Leu Cys
 65 70 75

<210> 10
 <211> 77
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Consensus sequence

<221> VARIANT
 <222> (1)...(77)
 <223> Xaa = Any Amino Acid

<400> 10
 Asp Xaa Leu Leu Xaa Xaa Leu Glu Xaa Leu Xaa Xaa Glu Glu Leu Lys
 1 5 10 15
 Lys Phe Lys Leu Leu Xaa Asn Xaa Ser Xaa Xaa Xaa Glu Xaa Ser
 20 25 30
 Arg Ile Pro Arg Xaa Gln Xaa Xaa Lys Ala Asp Gly Xaa Xaa Leu Ala
 35 40 45
 Xaa Xaa Leu Val Thr Xaa Tyr Gly Glu Xaa Tyr Ala Val Glu Leu Ala
 50 55 60
 Leu Gln Val Leu Glu Xaa Met Gly Leu Arg Xaa Leu Ala
 65 70 75

<210> 11
 <211> 77
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Consensus sequence

<221> VARIANT
 <222> (1)...(77)
 <223> Xaa = Any Amino Acid

<400> 11
 Asp Xaa Leu Ala Xaa Tyr Leu Glu Xaa Leu Xaa Xaa Glu Glu Leu Lys
 1 5 10 15
 Lys Phe Lys Leu Leu Leu Xaa Asn Xaa Ser Pro Gln Lys Gly Xaa Ser
 20 25 30
 Arg Ile Pro Arg Gly Gln Xaa Glu Lys Ala Asp Gly Val Asp Leu Ala
 35 40 45
 Thr Leu Leu Val Thr Phe Tyr Gly Glu Glu Tyr Ala Trp Ala Leu Ala
 50 55 60
 Leu Gln Val Leu Glu Ala Met Gly Leu Arg Asp Leu Ala
 65 70 75

<210> 12
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Consensus sequence

<400> 12

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Asn Pro Ser Leu Arg Glu Leu Asp Leu Ser Asn Asn Lys Leu Gly Asp
 1           5           10           15
Glu Gly Ala Arg Ala Leu Ala Glu Ala Leu Lys Ser
          20           25

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<210> 13

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Consensus sequence

<400> 13

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Asn Leu Glu Glu Leu Asp Leu Ser Asn Asn Leu Thr Ser Leu Pro Pro
 1           5           10           15
Gly Leu Phe Ser Asn Leu Pro
          20

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<210> 14

<211> 90

<212> PRT

<213> Homo sapiens

<400> 14

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Met Ala Lys Thr Pro Ser Asp His Leu Leu Ser Thr Leu Glu Glu Leu
 1           5           10           15
Val Pro Tyr Asp Phe Glu Lys Phe Lys Phe Lys Leu Gln Asn Thr Ser
          20           25           30
Val Gln Lys Glu His Ser Arg Ile Pro Arg Ser Gln Ile Gln Arg Ala
          35           40           45
Arg Pro Val Lys Met Ala Thr Leu Leu Val Thr Tyr Tyr Gly Glu Glu
          50           55           60
Tyr Ala Val Gln Leu Thr Leu Gln Val Leu Arg Ala Ile Asn Gln Arg
          65           70           75           80
Leu Leu Ala Glu Glu Leu His Arg Ala Ala
          85           90

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<210> 15

<211> 90

<212> PRT

<213> Homo sapiens

<400> 15

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Met Ala Gly Gly Ala Trp Gly Arg Leu Ala Cys Tyr Leu Glu Phe Leu
 1           5           10           15
Lys Lys Glu Glu Leu Lys Glu Phe Gln Leu Leu Leu Ala Asn Lys Ala
          20           25           30
His Ser Arg Ser Ser Ser Gly Glu Thr Pro Ala Gln Pro Glu Lys Thr
          35           40           45
Ser Gly Met Glu Val Ala Ser Tyr Leu Val Ala Gln Tyr Gly Glu Gln
          50           55           60

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Arg Ala Trp Asp Leu Ala Leu His Thr Trp Glu Gln Met Gly Leu Arg
 65 70 75 80
 Ser Leu Cys Ala Gln Ala Gln Glu Gly Ala
 85 90

<210> 16
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 16
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 1 5 10 15
 Ala Glu Glu Leu Lys Lys Phe Lys Leu Lys Leu Leu Ser Val Pro Leu
 20 25 30
 Arg Glu Gly Tyr Gly Arg Ile Pro Arg Gly Ala Leu Leu Ser Met Asp
 35 40 45
 Ala Leu Asp Leu Thr Asp Lys Leu Val Ser Phe Tyr Leu Glu Thr Tyr
 50 55 60
 Gly Ala Glu Leu Thr Ala Asn Val Leu Arg Asp Met Gly Leu Gln Glu
 65 70 75 80
 Met Ala Gly Gln Leu Gln Ala Ala Thr
 85

<210> 17
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 17
 Met Gly Thr Lys Arg Glu Ala Ile Leu Lys Val Leu Glu Asn Leu Thr
 1 5 10 15
 Pro Glu Glu Leu Lys Lys Phe Lys Met Lys Leu Gly Thr Val Pro Leu
 20 25 30
 Arg Glu Gly Phe Glu Arg Ile Pro Arg Gly Ala Leu Gly Gln Leu Asp
 35 40 45
 Ile Val Asp Leu Thr Asp Lys Leu Val Ala Ser Tyr Tyr Glu Asp Tyr
 50 55 60
 Ala Ala Glu Leu Val Val Ala Val Leu Arg Asp Met Arg Met Leu Glu
 65 70 75 80
 Glu Ala Ala Arg Leu Gln Arg Ala Ala
 85